

The initial expressions of $U_5(\xi^i)$ for $1 \leq i \leq 5$. Here $\text{UofXi}[i]$ denotes $U_5(\xi^i)$.

$$\text{UofXi}[1] = 11 \xi - 60 \xi^2 + 175 \xi^3 - 250 \xi^4 + 125 \xi^5;$$

$$\text{UofXi}[2] = -24 \xi + 675 \xi^2 - 6700 \xi^3 + 37300 \xi^4 - 132500 \xi^5 + 316875 \xi^6 - 512500 \xi^7 + 531250 \xi^8 - 312500 \xi^9 + 78125 \xi^{10};$$

$$\text{UofXi}[3] = 21 \xi - 2010 \xi^2 + 49865 \xi^3 - 615750 \xi^4 + 4744125 \xi^5 - 25301250 \xi^6 + 98718750 \xi^7 - 290062500 \xi^8 + 649187500 \xi^9 - 1103906250 \xi^{10} + 1401562500 \xi^{11} - 1281250000 \xi^{12} + 791015625 \xi^{13} - 292968750 \xi^{14} + 48828125 \xi^{15};$$

$$\text{UofXi}[4] = -8 \xi + 2984 \xi^2 - 164200 \xi^3 + 3899475 \xi^4 - 54212000 \xi^5 + 508067500 \xi^6 - 3469550000 \xi^7 + 18095862500 \xi^8 - 74240000000 \xi^9 + 243974062500 \xi^{10} - 648743750000 \xi^{11} + 1400732421875 \xi^{12} - 2449687500000 \xi^{13} + 3439882812500 \xi^{14} - 3816406250000 \xi^{15} + 3260253906250 \xi^{16} - 2060546875000 \xi^{17} + 903320312500 \xi^{18} - 244140625000 \xi^{19} + 30517578125 \xi^{20};$$

$$\text{UofXi}[5] = \xi - 2650 \xi^2 + 316275 \xi^3 - 13553000 \xi^4 + 314189375 \xi^5 - 4710706250 \xi^6 + 50353584375 \xi^7 - 407308906250 \xi^8 + 2592548671875 \xi^9 - 13334386718750 \xi^{10} + 56443662109375 \xi^{11} - 199097265625000 \xi^{12} + 589929902343750 \xi^{13} - 1474730957031250 \xi^{14} + 3113805664062500 \xi^{15} - 5542136230468750 \xi^{16} + 8271881103515625 \xi^{17} - 10261718750000000 \xi^{18} + 10441009521484375 \xi^{19} - 8547973632812500 \xi^{20} + 5478668212890625 \xi^{21} - 2639770507812500 \xi^{22} + 896453857421875 \xi^{23} - 190734863281250 \xi^{24} + 19073486328125 \xi^{25};$$